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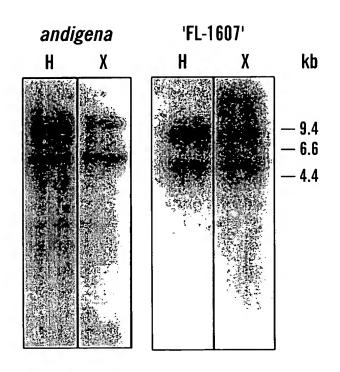


FIG. 1

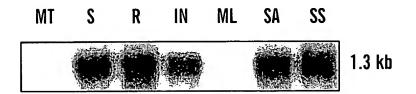


FIG. 2

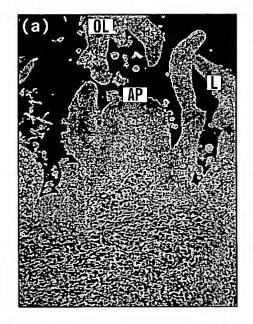


FIG. 3A

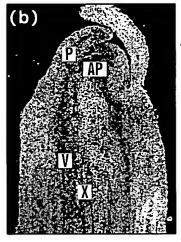
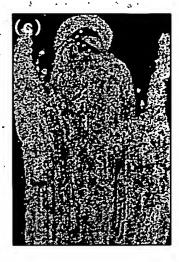


FIG. 3B FIG. 3C



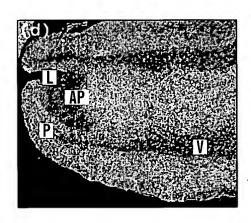
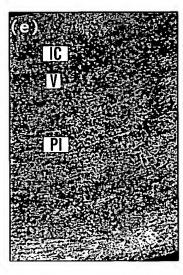


FIG. 3D



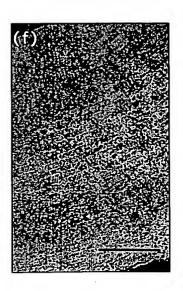


FIG. 3E FIG. 3F

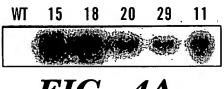


FIG. 4A

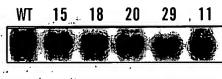


FIG. 4B

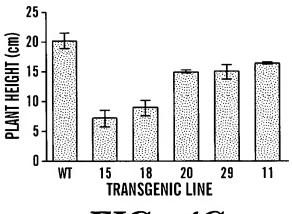


FIG. 4C

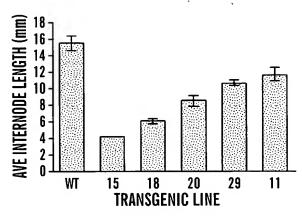


FIG. 4D

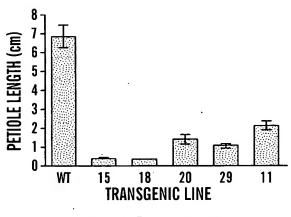


FIG. 4E

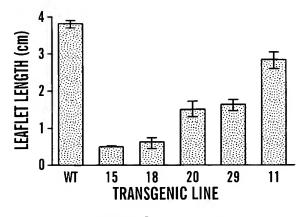


FIG. 4F

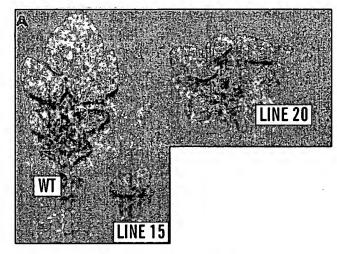


FIG. 5A

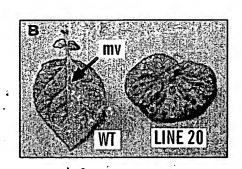


FIG. 5B





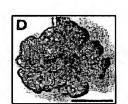


FIG. 5C FIG. 5D

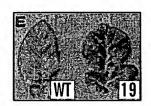


FIG. 5E

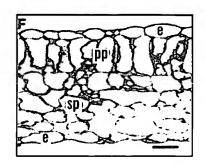
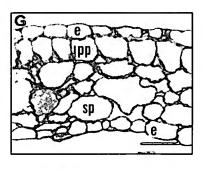


FIG. 5F



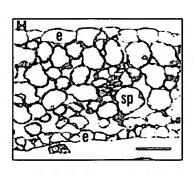
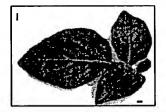


FIG. 5G FIG. 5H

REPLACEMENT **SHEET**



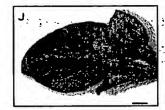
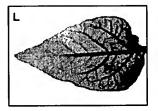




FIG. 5I FIG. 5J FIG. 5K



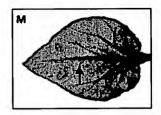
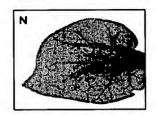


FIG. 5L FIG. 5M FIG. 5N







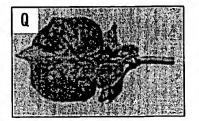


FIG. 50 FIG. 5P FIG. 5Q

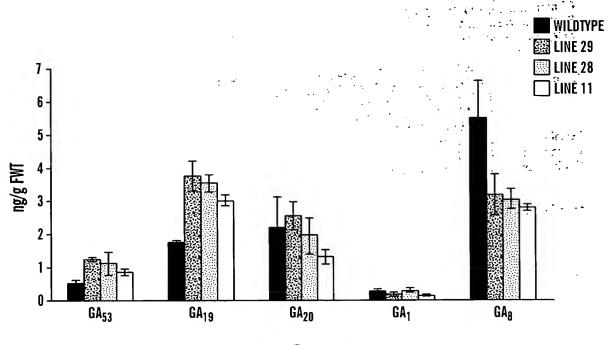


FIG. 6

	WT		S	<i>Poth.</i> Ense lin	
2	9	10	11	15	18

FIG. 7A

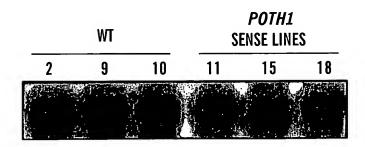


FIG. 7B

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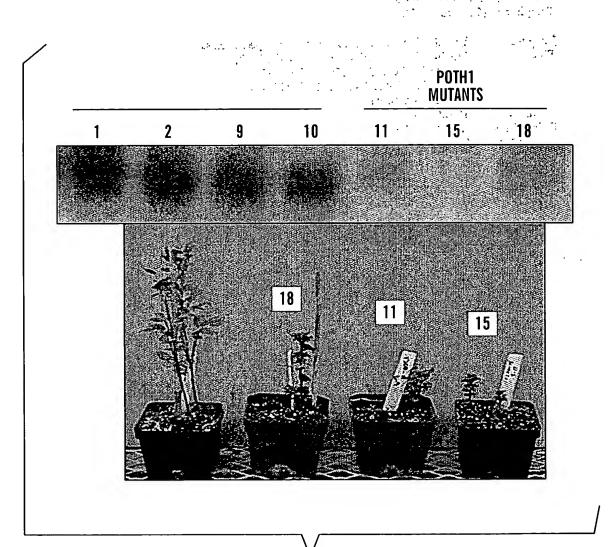


FIG. 8

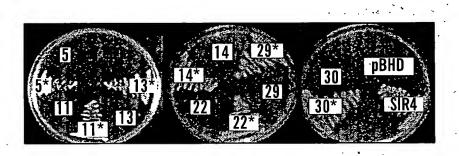


FIG. 9A

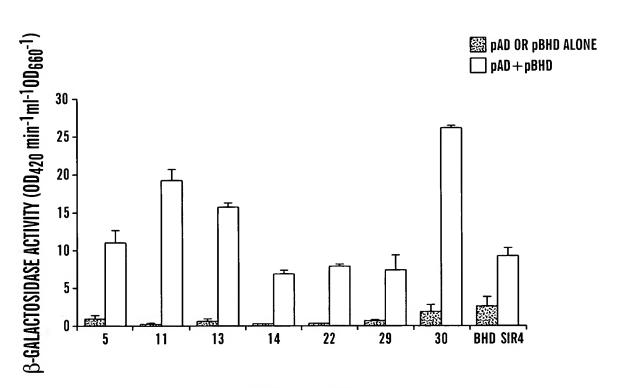


FIG. 9B

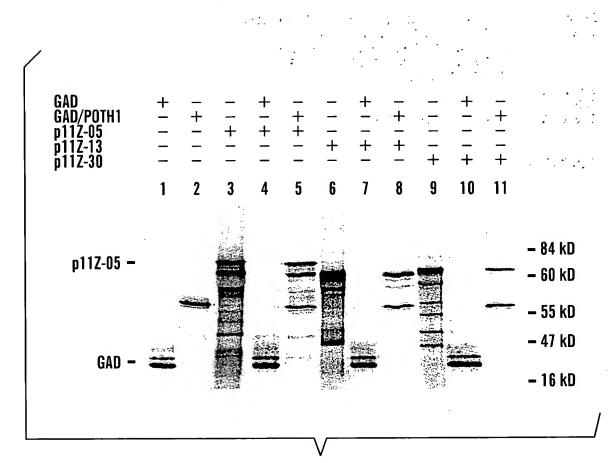


FIG. 9C

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	· · · · · · · · · · · · · · · · · · ·	GROWTH ON SELECTIVE MEDIA	RELATIVE % β-gal ACTIVITY
POTH1 (345 aa)	E CRI	YES	100
pBHD1 (115-345)	- STRI	YES	35
pBHD2 (165-345)	इत्स 💮	YES	45
pBHD3 (209-345)	— <u>Esti</u>	NO	0
pBHD4 (1-261)	 267	YES	72
pBHD5 (1-223)		YES	÷92
pBHD6 (1-171)		YES	25
pBHD9 (1-113)		YES	38

FIG. 10A

		GROWTH ON SELECTIVE MEDIA	RELATIVE % β-gal ACTIVITY
pAD5 (653 aa)	· · · · · · · · · · · · · · · · · · ·	- YES	100
pAD5-1 (230-653)		- YES	45
pAD5-2 (257-653)		- NO	0
pAD5-3 (313-653)		- NO	0
pAD5-4 (348-653)	-	- NO	0
pAD5-5 (384-653)	□	- NO	0
pAD5-7 (1-487)		YES	97
pAD5-8 (1-358)		YES	57
pAD5-9 (1-315)		YES	9.1
pAD5-11 (1-286)		YES*	0

*INTERACTION WITH THIS CONSTRUCT PRODUCED A FEW, SLOW GROWING COLONIES BUT NO DETECTABLE $\beta\text{-}\textsc{gal}$ activity.

FIG. 10B

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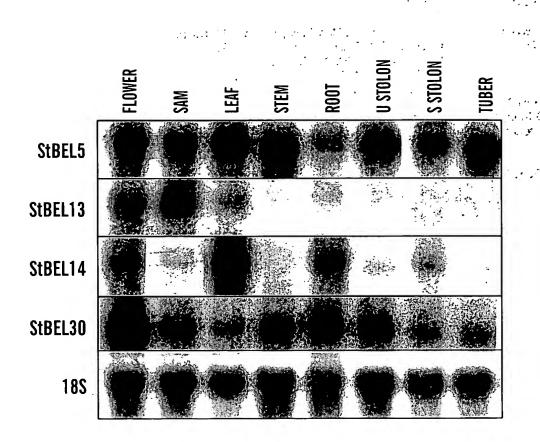


FIG. 11A

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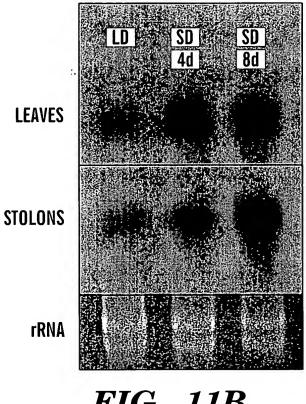
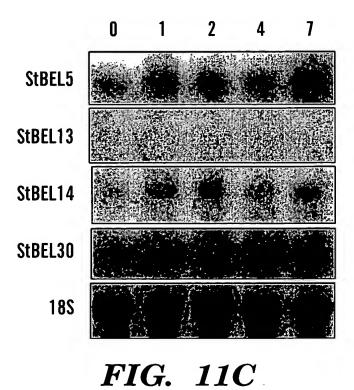


FIG. 11B



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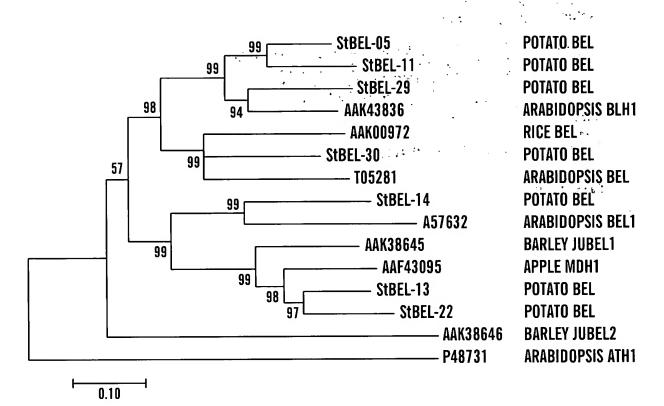


FIG. 12

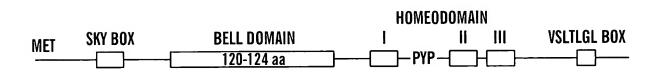


FIG. 13A

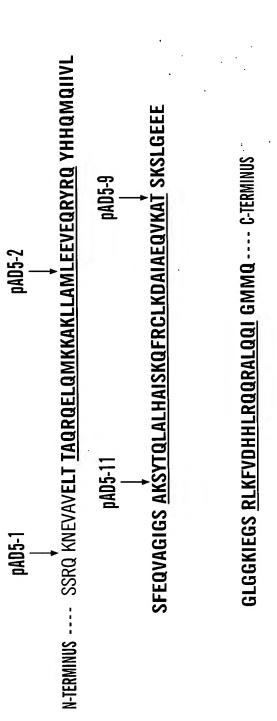


FIG. 13B

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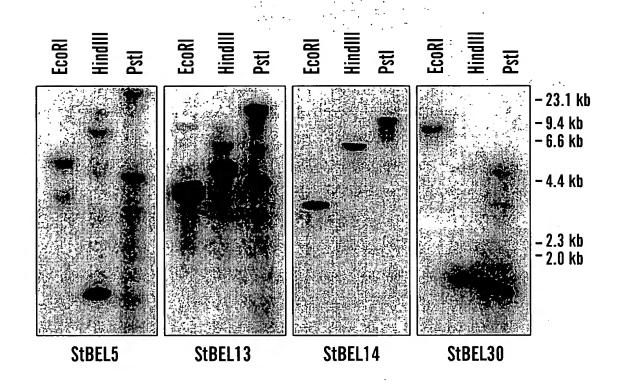


FIG. 13C

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		StBEL5 TRANSGENIC LINES			* .:
WT .	6		12	14	19

FIG. 14A

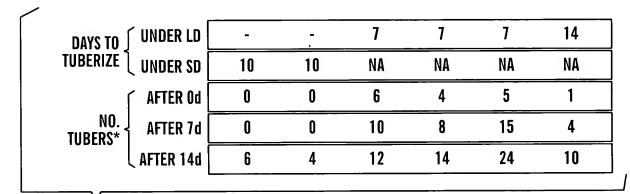


FIG. 14B

TUBER YIELD PLANT-1 (mg)*	18	28	18	95	292	50
	*FROM TWE	NTY-FOUR	PLANTLETS	PER LINE,	THIRTY-FIV	E FOR WT

FIG. 14C

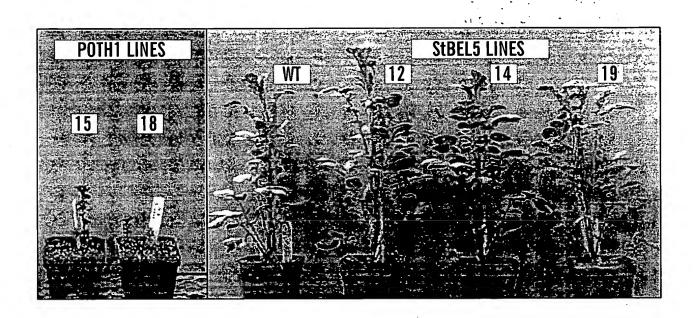
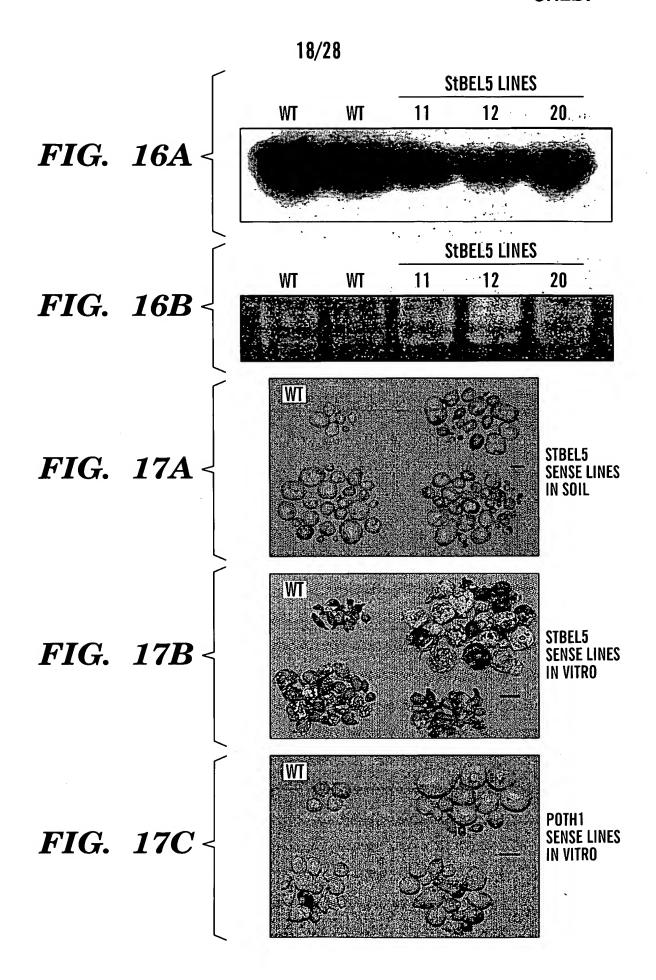


FIG. 15



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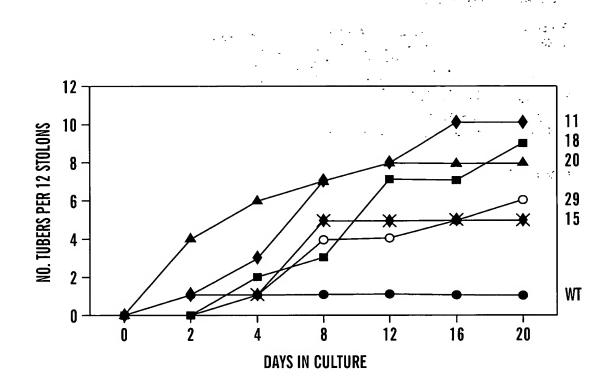


FIG. 17D

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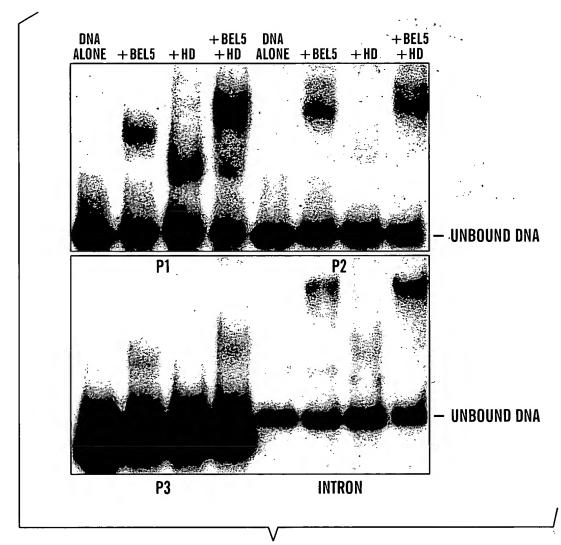


FIG. 18A

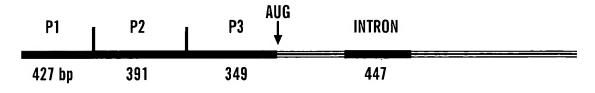


FIG. 18B

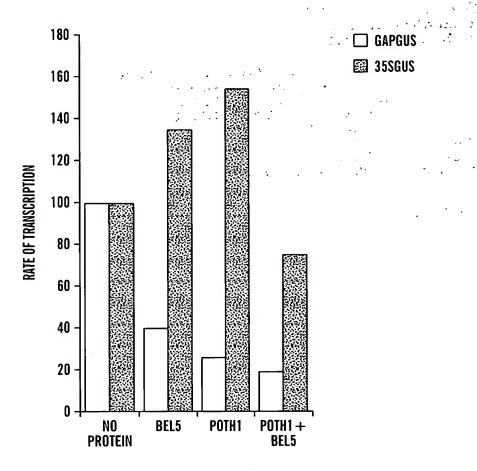


FIG. 19

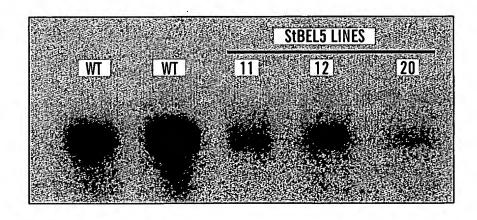


FIG. 20

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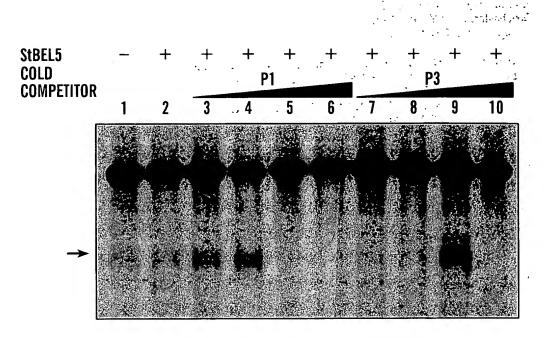


FIG. 21A

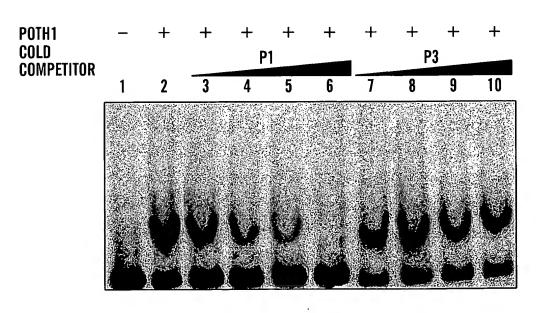


FIG. 21B

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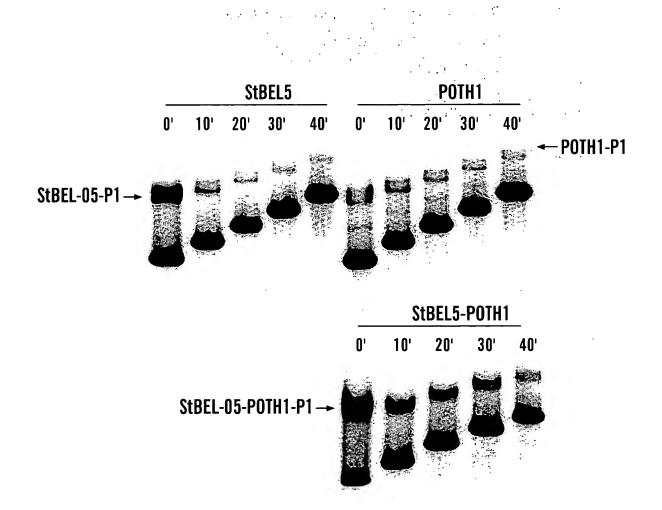


FIG. 22

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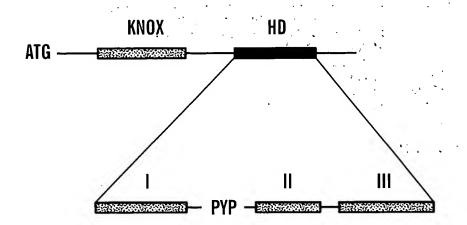


FIG. 23A

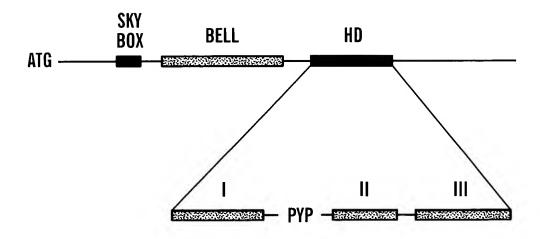
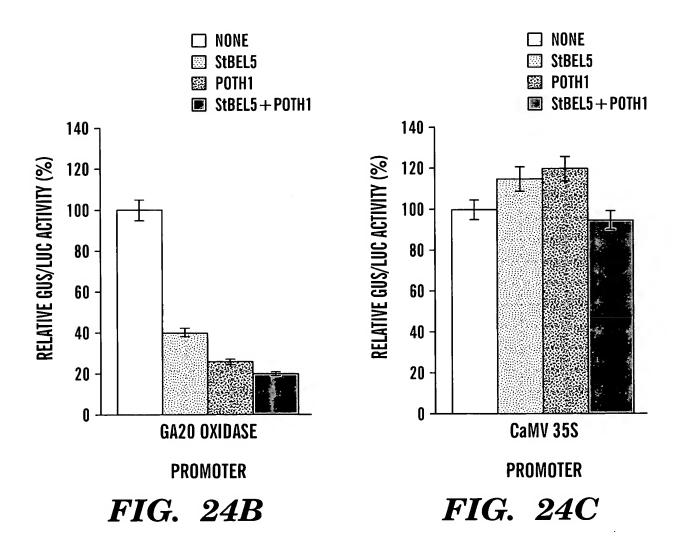


FIG. 23B

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p35S::LUC	35S p	ro LUCI	FERASE	NOS ter	
pGA20ox::GUS	35S en	GA20ox	GUS	NOS ter	
p35S::P0TH1	35S pro	KNOX	HD	NOS ter	
p35S::StBEL5	35S pro	BEL	HD	NOS ter	

FIG. 24A



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BOTH TFS IN TANDEM ARE NEEDED TO REPRESS THE TARGET GENE DIAGRAM OF CONSTRUCTS

CONSTRUCTS

35\$	GA20: ox	GUS
358	StBEL	-
35\$	POTH1	
35\$	BEL	StBEL5 ² C295
35\$	KNOX	POTH1 ² C122

FIG. 25A

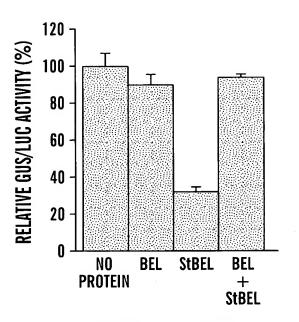


FIG. 25B

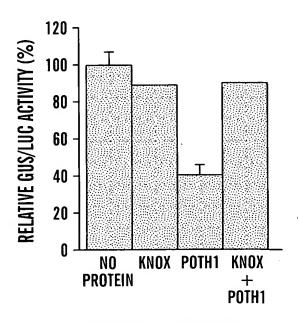
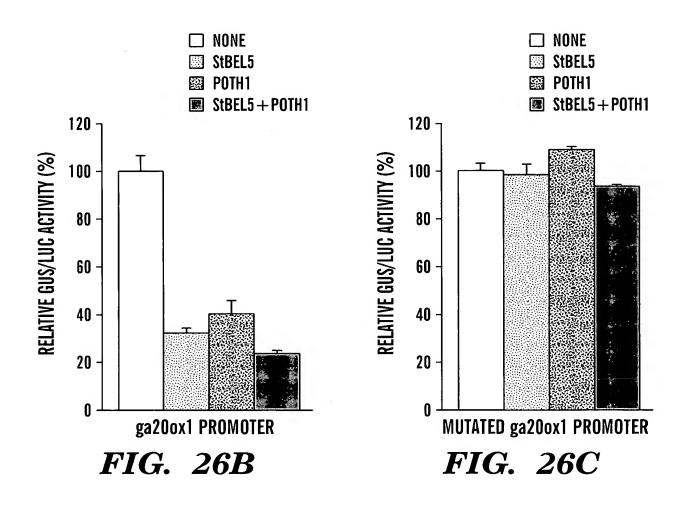


FIG. 25C

TGACTT<u>G</u>AC

TGACTT<u>C</u>AC (MUTATED)

FIG. 26A



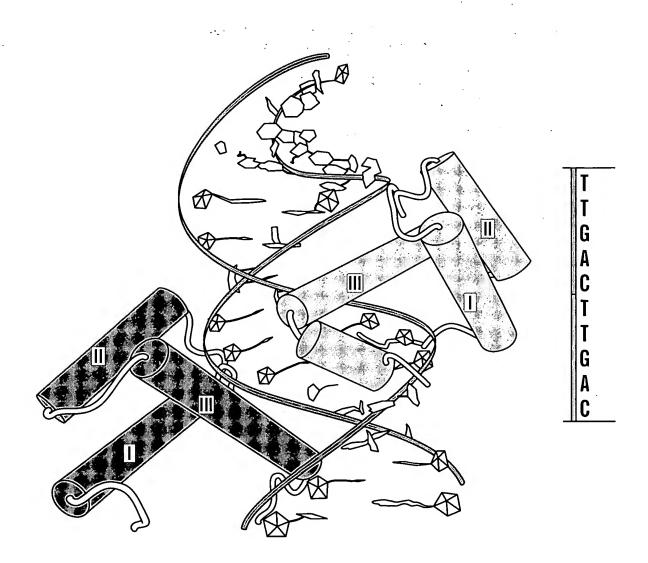


FIG. 27